

Substitute for form 1449A/PTO (Modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b> Application Number <b>10/588,689</b> Filing Date <b>August 4, 2006</b> First Named Inventor <b>WESTBERRY et al.</b> Art Unit <b>To be assigned</b> Examiner Name <b>To be assigned</b> Attorney Docket Number <b>186257/US/ (469981-00115)</b>	
Sheet	1	of	2		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US-4,458,006	7/3/1984	DONGES, et al.	
	A2	US-4,683,195	7/28/1995	MULLIS, et al	
	A3	US-4,683,202	7/28/1995	MULLIS, et al	
	A4	†US-5,536,649	7/16/1996	FRASIER, et al.	
	A5	US-5,409,818	4/25/1995	DAVEY et al.	
	A6	US-5,418,149	5/23/1995	GELFUND, et al.	
	A7	†US-5,455,166	10/3/1995	WALKER	
	A8	†US-5,830,655	11/3/1998	MONFORTE et al.	
	A9	US-6,248,533	6/19/2001	HABERHAUSEN et al.	
	A10	US-6,413,718	7/2/2002	LEUSHNER et al.	
	A11	US-6,783,940	8/31/2004	McLAUGHLIN et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Foreign Patent Document Country Code <sup>5</sup> Number <sup>5</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	B1				

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.			
	C1	BEAUCAGE et al., "Deoxynucleoside Phosphoramidites – A New Class of Key Intermediates for Deoxyolynucleotide Synthesis", <i>Tetrahedron Letters</i> , 22:1859-1862 (1981)			
	C2	BRAASCH and COREY, "Locked nucleic acid (LNA): fine tuning the recognition of DNA and RNA"; <i>Chem Bio</i> 2001, 8(1):1-7			
	C3	MANIATIS et al., <i>Molecular Cloning: A Laboratory Manual</i> (New York: Cold Spring Harbor Laboratory) pp280-281 (1982)			
	C4	MOK et al., "The Escherichia coli Reprimosome and DnaB Helicase Can Form Replication Forks that Move at the Same Rate", <i>J. Biol. Chem.</i> 262:16558-16565 (1987)			
	C5	NIELSEN et al., "Peptide Nucleic Acid (PNA). A DNA Mimic with a Peptide Backbone", <i>Biconjug Chem.</i> 19945(1):3-7			
	C6	RADDING, C., "Homologous Pairing and Strand Exchange in Genetic Recombination", <i>Ann. Review of Genetics</i> , 16:405-37 (1982)			
	C7	UPRETTI, et al., "Enzyme leakage during cryopreservation of ram spermatozoa"; <i>Animal Reproduction Science</i> 1996, Vol. 41, pages 27-36			

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: † These references were previously cited in a related application relied upon for an earlier filing date under 35 USC 120 and no copies are submitted in accordance with 37 CFR 1.98(d). Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the complete application for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and selection option 2

Substitute for form 1449A/PTO (Modified)			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	10/588,689	
			Filing Date	August 4, 2006	
			First Named Inventor	WESTBERRY et al.	
			Art Unit	To be assigned	
			Examiner Name	To be assigned	
Sheet	2	of	2	Attorney Docket Number	186257/US/ (469981-00115)

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	C8	VAJDA, T. Cryo-biorganic chemistry: molecular interactions at low temperatures. CMLS Cell Mol. Life Science 1999, Vol. 41, pages 27-36		
	C9	YUZHAKOU et al., "Replisome Assembly Reveals the Basis for Asymmetric Function in Leading and Lagging Strand Replication", Cell 86:877-886		

4828-1331-3793|1

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: † These references were previously cited in a related application relied upon for an earlier filing date under 35 USC 120 and no copies are submitted in accordance with 37 CFR 1.98(d). Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.  
<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.  
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the complete application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1480, Alexandria, VA 22313-1480.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and selection option 2.

4828-1331-3793|1